

# PLC

Training  
Courses



Wohlstand Training & Consultancy

## Wohlstand Post Graduate Diploma in Industrial Automation

### Course Description

Who should attend? Student, Manufacturing engineers, industrial engineers, plant operations managers, maintenance or any personnel involved in the planning, design and set-up of manufacturing facilities, or personnel who encounter control systems in their course of daily functions. This course will benefit personnel who might be programming, installing equipment, maintaining equipment, purchasing or implementing cost reduction and automation programs, or maintaining and troubleshooting PLC-based equipment.

What are the benefits?

- Offers exposure to state-of-the-art PLCs to keep engineers proficient
- Provides experience to Student that allows them to install and troubleshoot PLCs & DCS Systems
- Offers information for management to use in daily operations to make production more flexible, reliable, productive and profitable

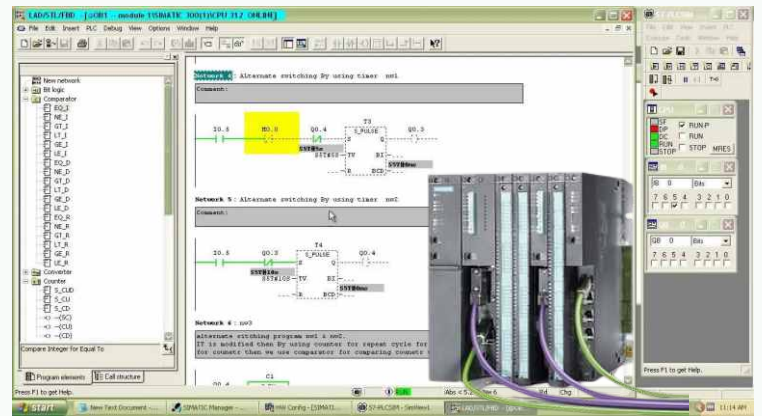
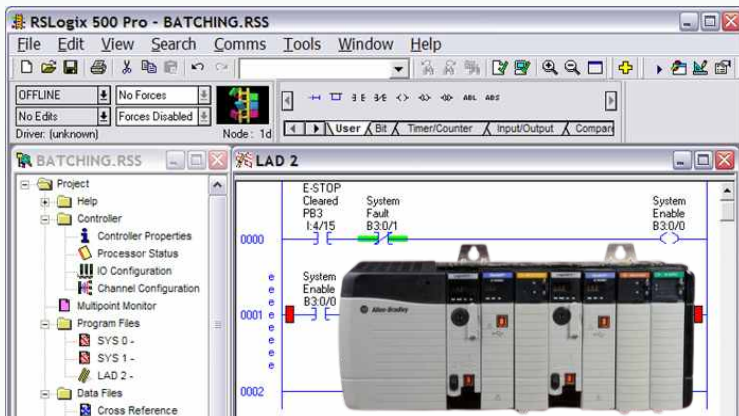
### Course Contain

Introduction to Automation  
Basic Electrical  
Basic Electronics  
Industrial Electrical systems  
Programmable Logic Controllers (PLC)  
PLC Wiring  
Supervisory Control And Data Acquisition (SCADA)  
Human Machine Interface (HMI)  
VFD(Variable frequency drive)  
Distributed Control Systems (DCS)  
Industrial Process & Instrumentation systems  
Basic safety in Sites  
Professional Grooming sessions  
Basic lab  
Interview skill training.

Fees Includes:  
Training Manuals  
100% Job Assurance

## HANDS ON TRAINING

3 Month  
4Hr Daily  
**OR**  
30 Days  
Full time



Wohlstand Training & Consultancy

First floor 132 & 133 Mastermind 4 ,  
Royal Palms, Aarey colony, Mayur nagar,  
Goregaon East 400063.

Cell : +91 99206 76635 | 92235 25017  
Email : training@wohlstandindia.com

In order to assure registration, all class fees must be received prior to the scheduled class date.

Hotel rooms are available at a discounted rate for International & Outstation Student, however, reservations must be made two weeks prior to date of class.



# Course Syllabus

## Programmable Logic Controllers (PLC)

Introduction to Type of Major PLC use in the plant  
Introduction to PLC programming Software  
Programming of PLC using Software - FBD, SFC & ST  
PLC Wiring  
Installations & Commissioning of PLC  
Maintenance & Troubleshooting of PLC  
Industrial Networking & Communication Protocols of PLC

## Supervisory Control And Data Acquisition (SCADA)

Introduction to various SCADA systems used in Plants  
Creating & Editing graphic display with animation  
Creating & Accessing Real-time and Historical Trends  
Communication with PLC & other Data Acquisition System  
Fault diagnostics and error handling  
System architecture and Networking  
SCADA security policies

## Human Machine Interface (HMI)

Getting started with HMI.  
Creating applications, creating tags.  
Downloading and uploading Programs.  
Creating GUI screen on the HMI.  
Alarm Messages.  
Communicating with PLC.  
Fault diagnostics and Troubleshooting.

## VFD(Variable frequency drive)

Properly Matching A Drive to A Machine  
Choosing the Correct Motor  
Choosing the Best Type of Variable Frequency Drive (VFD)  
Identify & Correct Drive System Problems  
Identify & Test Major Drive Components  
Perform Start-Up of an Drives  
Program & Adjust the Drive for Desired Operation  
Hands-On Programming and Operation of an AC Drive and Motor

## Distributed Control Systems (DCS)

Introduction to various control systems used  
Applications of DCS system  
Architectural evolution for DCS  
Hardware architecture of DCS  
Processor, Power supply, I/O modules, Communication bus  
Operator and Engineering station, Redundancy  
Comparison between the hardware PLC & DCS  
Overview of the system components and topologies  
How to Connecting field devises to DCS  
Control networks  
Application development in DCS system  
Networking technologies in DCS systems  
DCS trouble shooting techniques

Visit <http://www.wohlstandedu.com/Events.aspx>  
For latest Schedule & Dates

**Give 0% off  
And Get 0% Off Yourself** **2021 Offer**

Sharing is caring! Invite your friend to learn at Wohlstand by giving F0% off selected course or receive F0% more discount for yourself on next course.

## 2021 Schedule

First batch after Lockdown

**Every 1st week of Month (Monday)**

Practical Session at our training center with minimum  
10 Participants with Social Distancing



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**ONSITE TRAINING AVAILABLE**

Customized to fit your need,  
Call for details

## Registration Form

(Act Now - Seats are Limited)

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Pin \_\_\_\_\_

Telephone \_\_\_\_\_ Email \_\_\_\_\_

Method Of Payment  Check  
 Cash  
 UPI  
 Visa / Master Card

Signature \_\_\_\_\_